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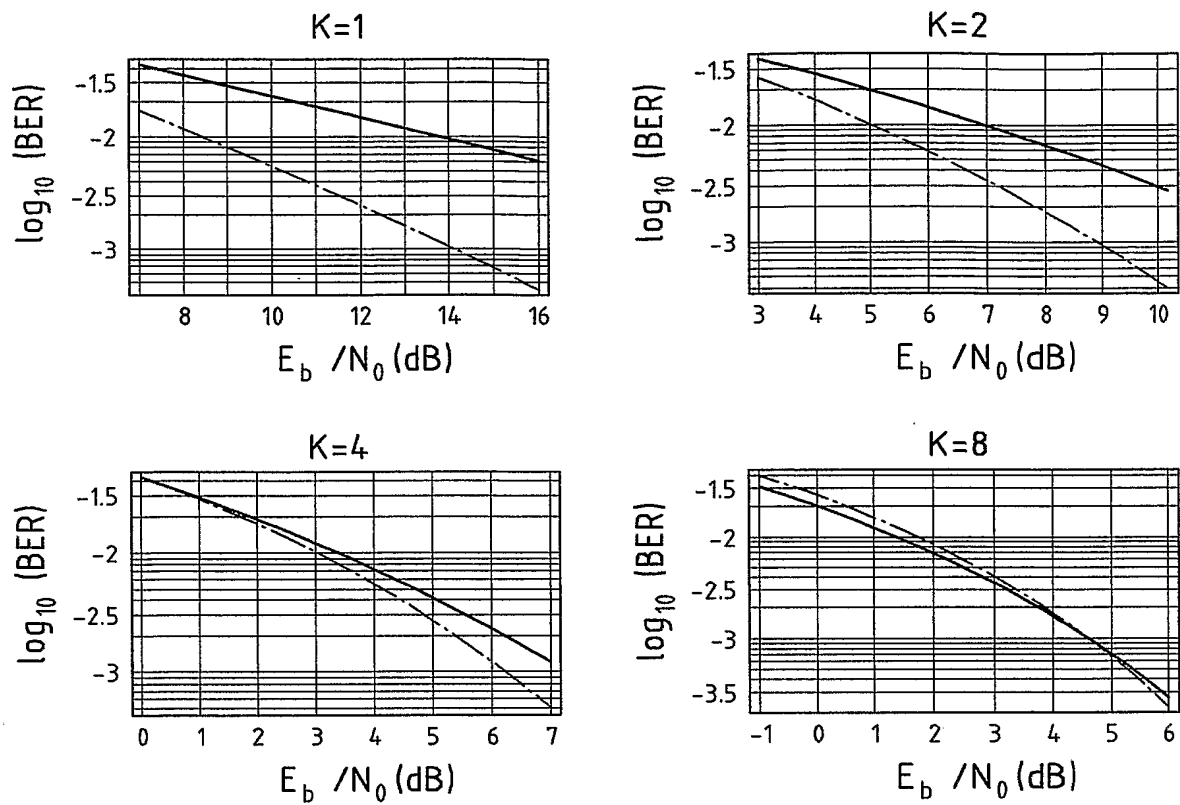


Fig.1 Prior Art

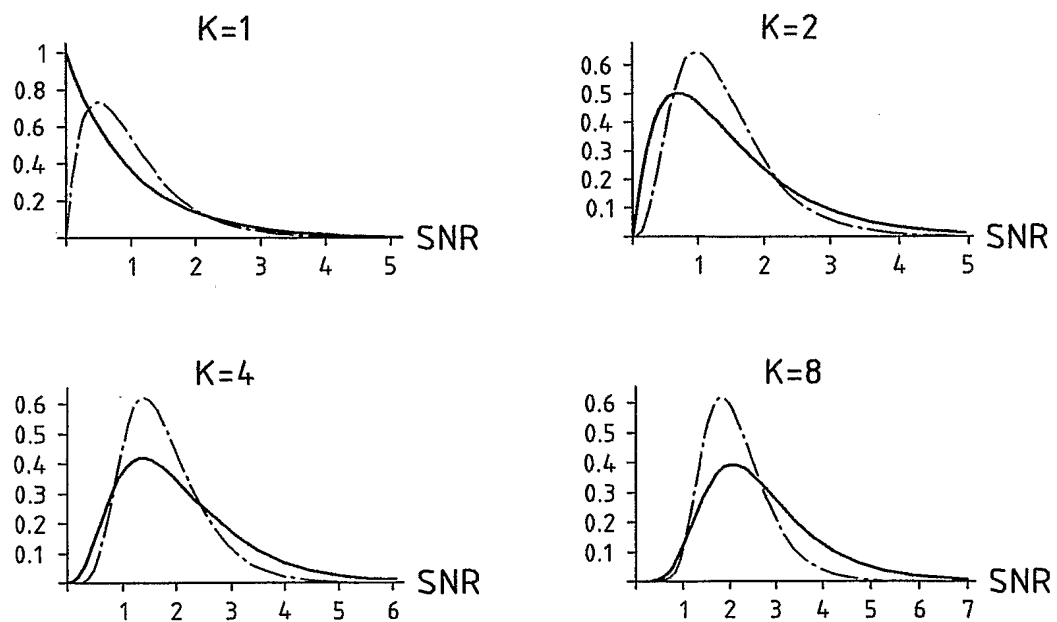


Fig.2 Prior Art

modulation	calculation method	$R_k$		det $R_k$	
		multipls	adds	multipls	adds
ABBA	direct	128 Cx	112 C+	40 Cx	30 C+
	proposed	12 Cx	10 C+	3 Rx	1 R+
DABBA	direct	512 Cx	448 C+	79176 Cx	18880 C+
	proposed	20 Cx	12 R+ and 3 C+	7 Rx	3 R+
TSTTD	direct	64 Cx	48 C+	40 Cx	30 C+
	proposed	6 Cx	2 R+ and 1 C+	total $R_k$ 3 Cx	and det $R_k$ 1 C+

Fig.3

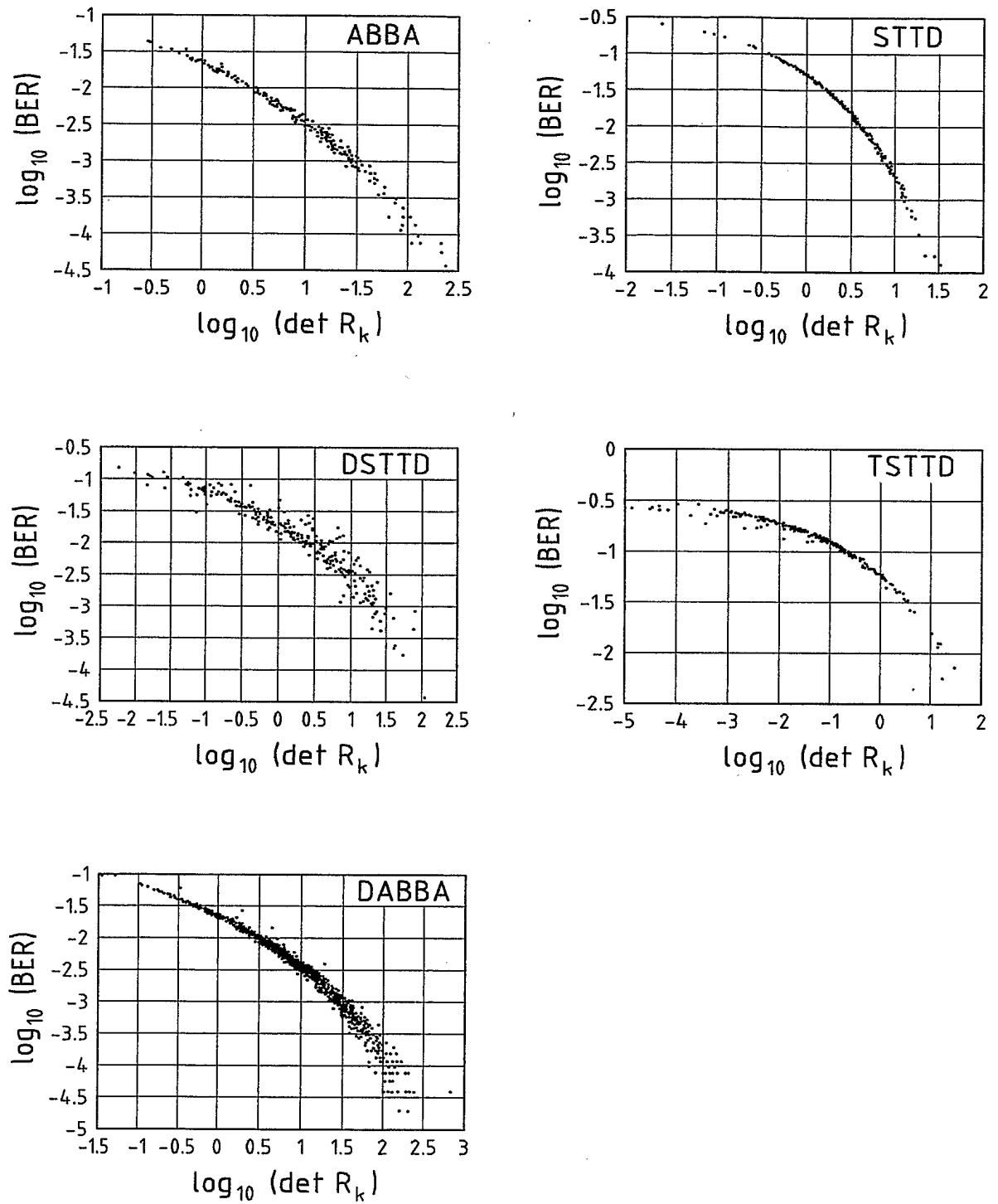
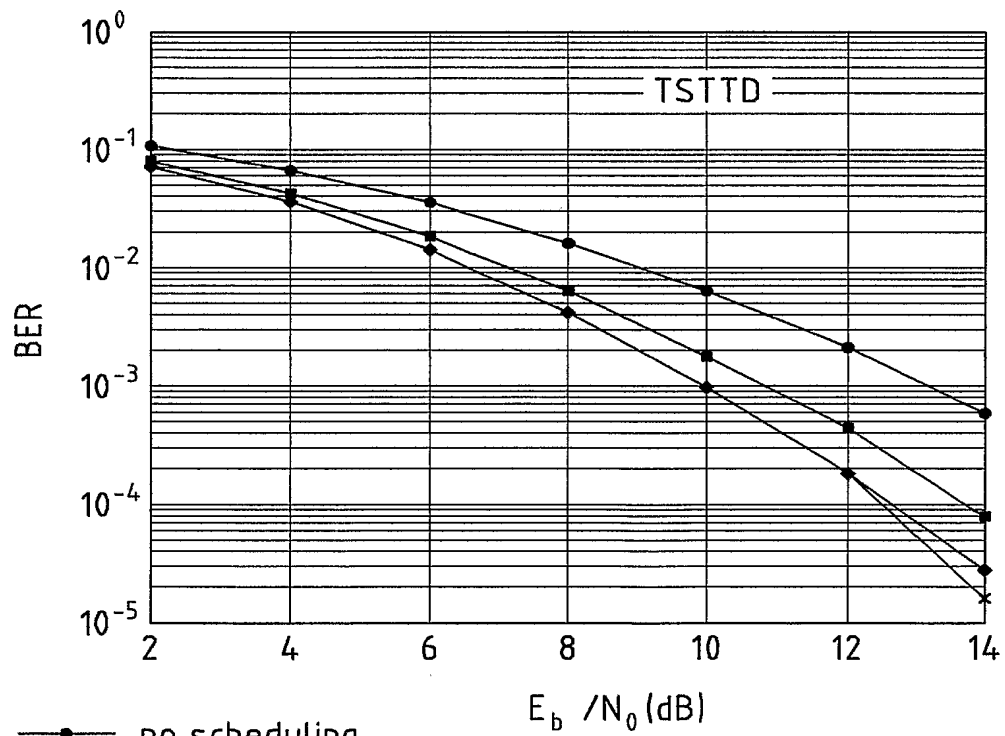
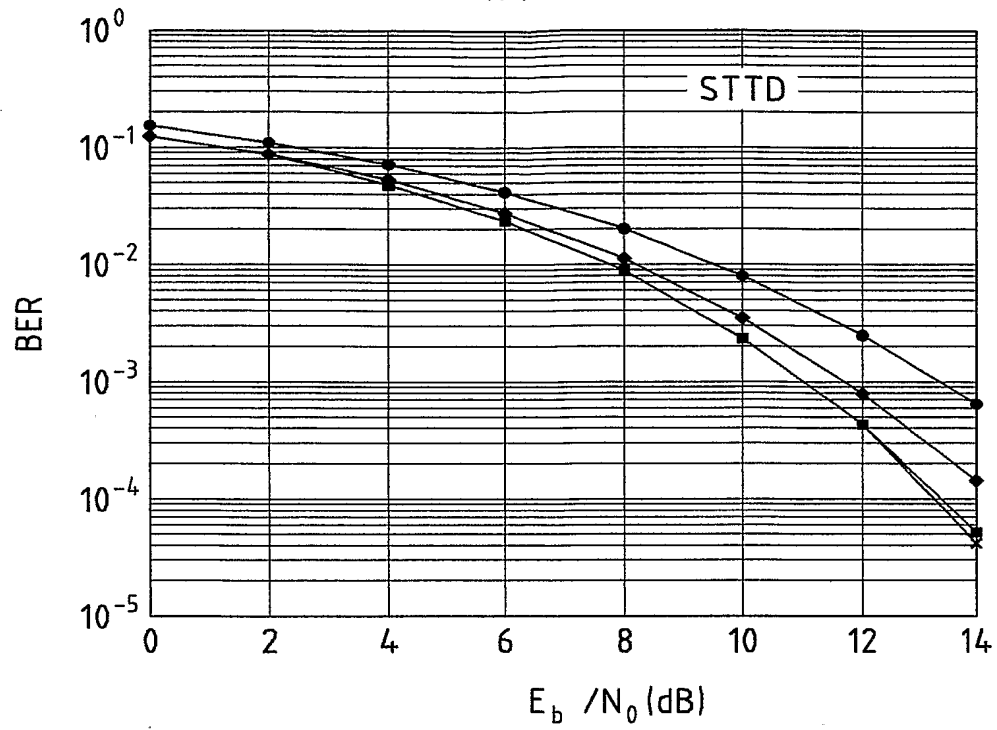


Fig.4

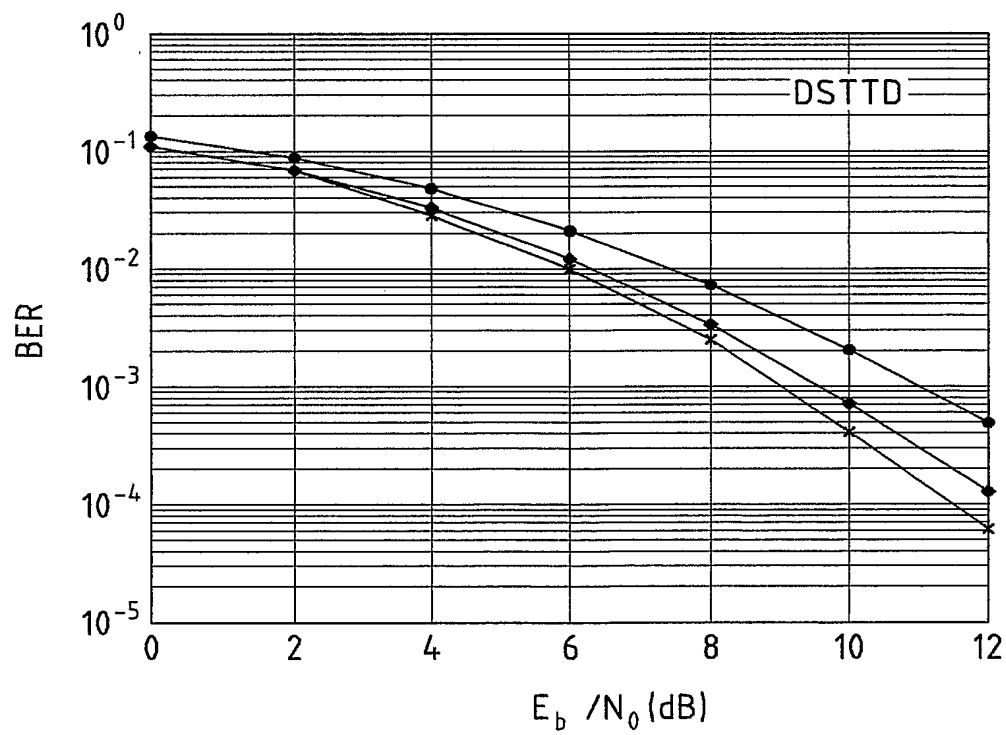
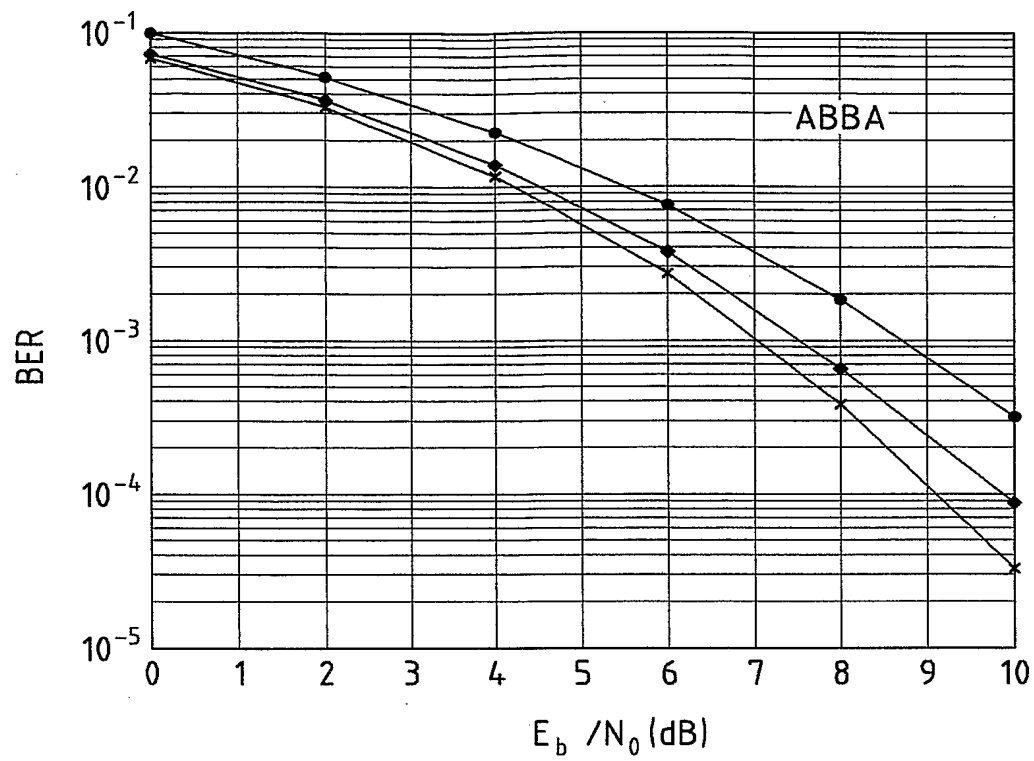
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- no scheduling
- ×— CQI  $q_k = \det R_k$
- CQI  $q_k = \text{tr} R_k$
- ◆— CQI  $q_k = \det H_k^H H_k$

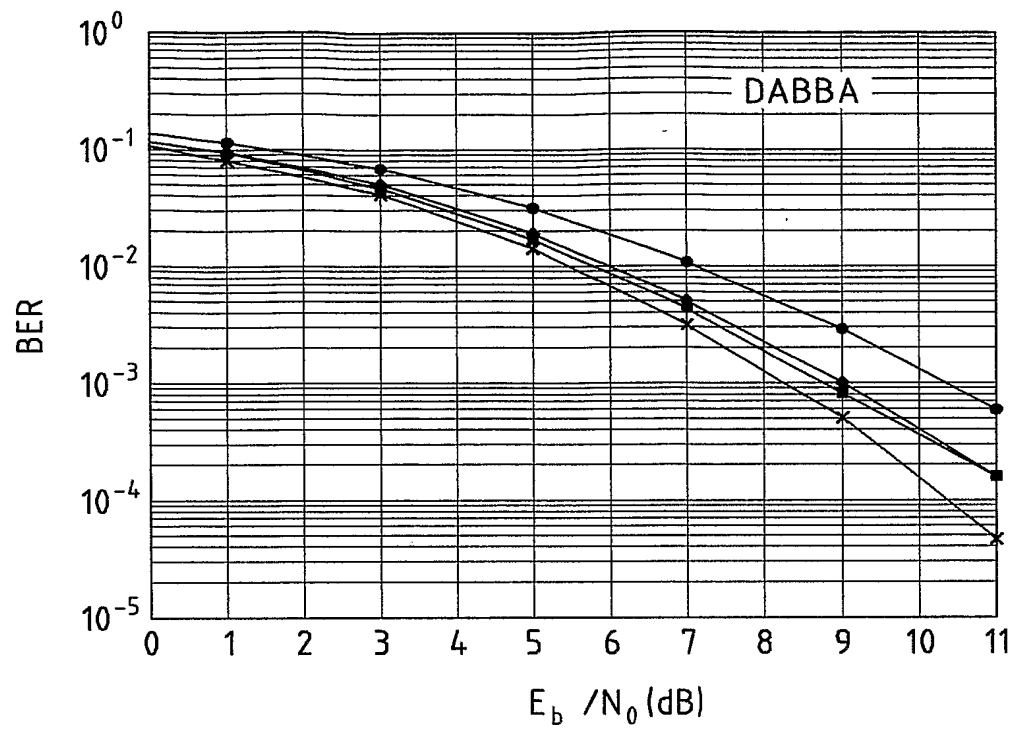
Fig.5A

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- no scheduling
- ×— CQI  $q_k = \det R_k$
- ◆— CQI  $q_k = \det H_k^H H_k$

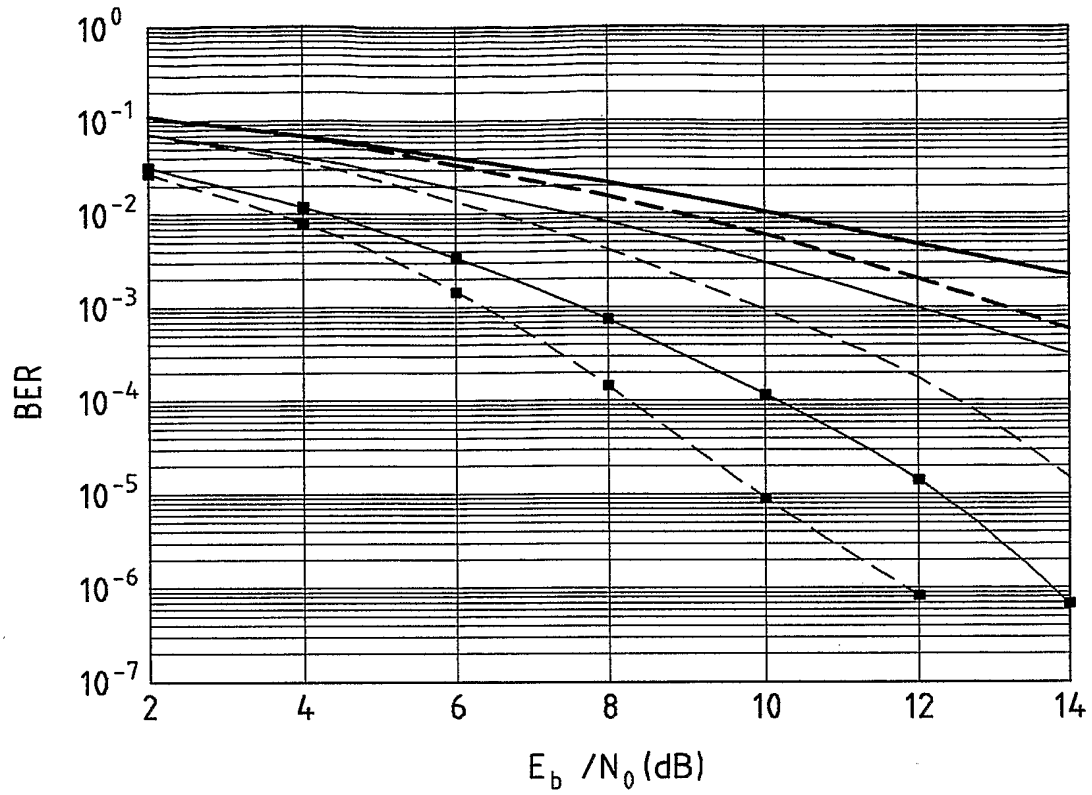
Fig.5B



- no scheduling
- ×— CQI  $q_k = \det R_k$
- CQI  $q_k = \text{tr } R_k$
- ◆— CQI  $q_k = \det H_k^H H_k$

Fig.5C

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- BLAST : no scheduling
- BLAST : CQI  $q_k = \det H_k^H H_k$ ,  $K=2$
- BLAST : CQI  $q_k = \det H_k^H H_k$ ,  $K=8$
- - - TSTTD : no scheduling
- - - TSTTD : CQI  $q_k = \det R_k$ ,  $K=2$
- TSTTD : CQI  $q_k = \det R_k$ ,  $K=8$

Fig.6

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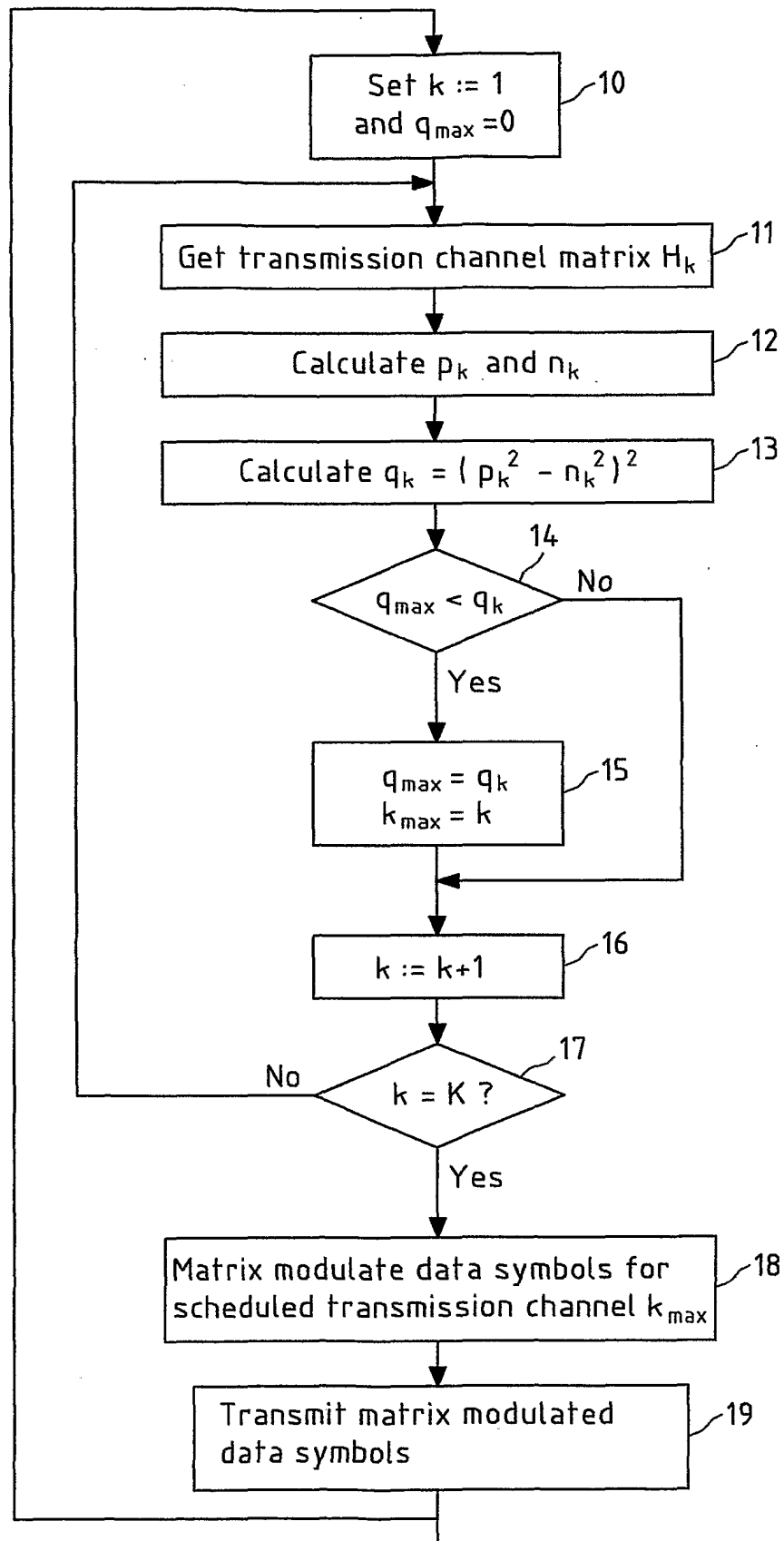


Fig.7



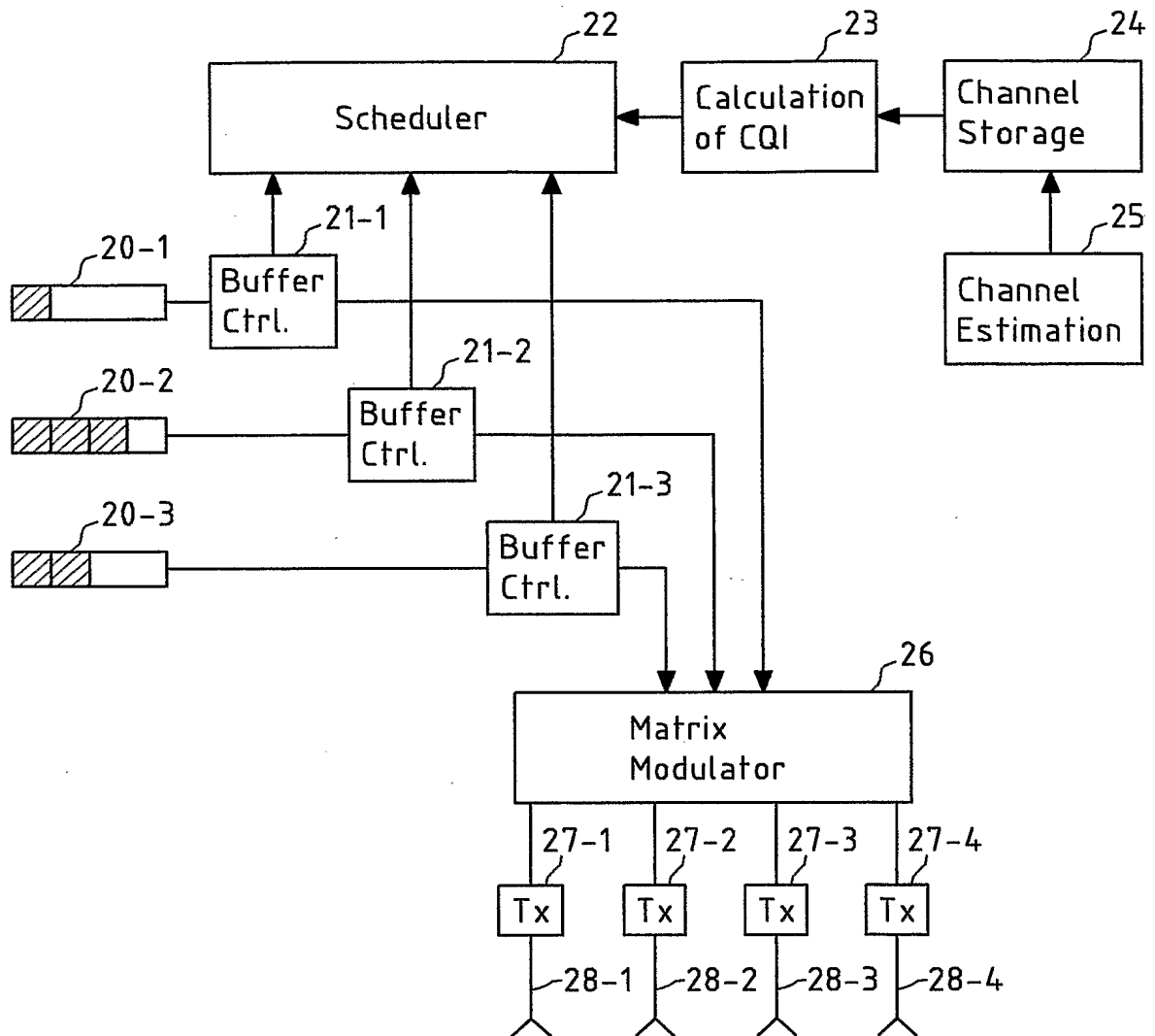


Fig.8